EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	313	(copper 'cu') with (('ru' rhthenium) (rhthenium near3 oxide "RuO.sub.2")) with (diffusion diffusing difus$3 barrier prevent$4 preventing prevention)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/19 14:02
L2	138	(copper 'cu') with (('ru' rhthenium) (rhthenium near3 oxide "RuO.sub.2")) near5 (diffusion diffusing difus$3 barrier prevent$4 preventing prevention)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/19 14:02
L3	105	(copper 'cu') near5 (('ru' rhthenium) (rhthenium near3 oxide "RuO.sub.2")) near5 (diffusion diffusing difus$3 barrier prevent$4 preventing prevention)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/19 14:17
L4	2	(copper 'cu') near5 ((rhthenium near3 oxide "RuO.sub.2")) near5 (diffusion diffusing difus$3 barrier prevent$4 preventing prevention)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/19 14:42
L5	1	5-218035	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/19 14:42
L6	2	(copper 'cu') near5 ((rhthenium near3 oxide "RuO.sub.2")) near5 (diffusion diffusing difus$3 barrier prevent$4 preventing prevention)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 14:54
L7	167	((rhthenium near3 oxide "RuO.sub.2")) near5 (diffusion diffusing difus$3 barrier prevent$4 preventing prevention)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 14:54

L8	4862	"RuO.sub.2"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 16:30
L9	37	"Ru O.sub.2"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 14:54
L10	15	("20020036309" | "20020064592" | "4976996" | "5770469" | "5916365" | "5939746" | "6107136" | "6335241" | "6365502" | "6368910" | "6432779" | "6433379" | "6464779" | "6472322" | "6482740").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 15:52
L11	45	("4789598" | "4792378" | "4825809" | "4948623" | "4965656" | "4970093" | "5082542" | "5085731" | "5098516" | "5112448" | "5231751" | "5268034" | "5312509" | "5354712" | "5453124" | "5464656" | "5594278" | "5595606" | "5624498" | "5674787" | "5689227" | "5723028" | "5723387" | "5730801" | "5736191" | "5755859" | "5763953" | "5766379" | "5789321" | "5792593" | "5824590" | "5843516" | "5852088" | "5866237" | "5891348" | "5891513" | "5916359" | "5948467" | "5969422" | "6015917" | "6054227" | "6057237" | "6063506" | "6136682" | "6181012").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 16:08

L12	56	("4976996").URPN.	USPAT	OR	OFF	2006/09/19 16:23
L13	0	("6713373").URPN.	USPAT	OR	OFF	2006/09/19 16:27
L14	0	("6713373").URPN.	USPAT	OR	OFF	2006/09/19 16:27
L15	15	("20020036309" | "20020064592" | "4976996" | "5770469" | "5916365" | "5939746" | "6107136" | "6335241" | "6365502" | "6368910" | "6432779" | "6433379" | "6464779" | "6472322" | "6482740").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 16:27
L16	15	("20020036309" | "20020064592" | "4976996" | "5770469" | "5916365" | "5939746" | "6107136" | "6335241" | "6365502" | "6368910" | "6432779" | "6433379" | "6464779" | "6472322" | "6482740").PN. OR ("6713373").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 16:27
L17	459	("RuO.sub.2" ruthenium adj oxide) with (ruthenium "Ru") with (barrier diffus$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 16:32
L18	31	("RuO.sub.2" ruthenium adj oxide) with (ruthenium "Ru") with (barrier diffus$4) with (copper "Cu")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/19 16:33
L19	2	("5183775" | "5555486").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/19 17:18
S22	1794	(dielectric near5 inter adj layer)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/02 17:50

S24	247	(diffusion near3 (layer barrier)) with (('ru' rhthenium) (rhthenium near3 oxide))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/02 18:06
S25	0	S22 with S24	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/02 17:53
S26	3	S22 and S24	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/02 17:53
S27	164	S24 and dielectric	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/02 17:58
S28	37	S27 and copper	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/02 17:58
S29	8588	(copper 'cu') with (('ru' rhthenium) (rhthenium near3 oxide))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/09/19 13:57
S30	71	(copper 'cu') with (('ru' rhthenium) (rhthenium near3 oxide)) with dielectric	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/02 18:07
S31	114	(copper 'cu') with (('ru' rhthenium) (rhthenium near3 oxide)) with barrier	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 05:44
S32	14	(copper 'cu') with (('ru' rhthenium) (rhthenium near3 oxide)) with barrier with dielectric	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/02 18:19
S33	1	10/916257	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/02 18:19
S34	807	('ru' rhthenium rhthenium near3 oxide ruo$6) with barrier	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 05:56
S35	356	S34 and ((etch$3 pattern$3) with (dielectric 'ild' inter adj layer interlayer))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 05:56
S36	313	S35 and ((etch$3 pattern$3) with (trench hole via opening groove damascene dual adj damascene))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 05:57

S37	75	S36 and (('cu' copper) with (trench hole via opening groove damascene dual adj damascene))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 06:02
S38	58	S37 and (interconnect$3 inter adj connect$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 06:00
S39	1167	('ru' ruthenium ruthenium near3 oxide ruo$6) with barrier	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 05:57
S40	509	S39 and ((etch$3 pattern$3) with (dielectric 'ild' inter adj layer interlayer))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 05:59
S41	445	S40 and ((etch$3 pattern$3) with (trench hole via opening groove damascene dual adj damascene))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 05:59
S42	13348	('ru' ruthenium ruthenium near3 oxide ruo$6) with (barrier liner seed linning film layer)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 06:07
S43	3744	S42 and ((etch$3 pattern$3) with (dielectric 'ild' inter adj layer interlayer insulat$3))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 05:59
S44	2631	S43 and ((etch$3 pattern$3) with (trench hole via opening groove damascene dual adj damascene))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 06:00
S45	874	S44 and (interconnect$3 inter adj connect$3 meltalization)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 06:01
S46	271	S45 and (('cu' copper) with (trench hole via opening groove damascene dual adj damascene))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 06:02
S47	170	S46 and diffusion near4 (barrier layer film liner)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 06:03
S48	170	S47 and ('ru' ruthenium ruthenium near3 oxide ruo$6 'cu' copper)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 09:29

S49	3	"6664186"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 07:47
S50	1	"6346484".PN.	USPAT; USOCR	OR	ON	2005/02/03 08:59
S51	1	"20020064592".PN.	US-PGPUB	OR	ON	2005/02/03 09:17
S52	1	"20020064592".PN.	US-PGPUB	OR	ON	2005/02/03 09:17
S53	1	"20020036309".PN.	US-PGPUB	OR	ON	2005/02/03 09:17
S54	1	"6482740".PN.	USPAT; USOCR	OR	ON	2005/02/03 09:17
S55	1	"6482740".PN.	USPAT; USOCR	OR	ON	2005/02/03 09:17
S56	1	"6472322".PN.	USPAT; USOCR	OR	ON	2005/02/03 09:22
S57	1	"6472322".PN.	USPAT; USOCR	OR	ON	2005/02/03 09:22
S58	1	"6433379".PN.	USPAT; USOCR	OR	ON	2005/02/03 09:23
S59	1	"6368910".PN.	USPAT; USOCR	OR	ON	2005/02/03 09:23
S60	1	"6368910".PN.	USPAT; USOCR	OR	ON	2005/02/03 09:25
S61	1	"6335241".PN.	USPAT; USOCR	OR	ON	2005/02/03 09:25
S62	1	10/600039	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 13:29
S63	0	2003/0003658	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 13:29
S64	1	"20030003658"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 13:33
S65	6	"6255205"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/02/03 13:34

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S66	2	"ru.sub.o.sub.2"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/20 10:52
S67	3	"ru.sub.2 o.sub.2"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/20 10:52
S68	4082	"ruo.sub.2"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/20 10:53
S69	1275	"ruo.sub.2" with 'ru'	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/20 10:55
S70	141	"ruo.sub.2" with (barier diffusion)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/20 10:56
S71	251	"ruo.sub.2" with (barrier diffusion)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/20 10:58
S72	14	"ruo.sub.2" with ((barrier diffusion) with (copper 'cu'))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/20 17:21
S73	22	("ruo.sub.2" ruthenium adj oxide) with ((barrier diffusion) with (copper 'cu'))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/20 13:26
S74	12	("ruo.sub.2" ruthenium adj oxide) with ((barrier diffusion) with interconnect$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/20 14:30
S75	235	("re" ruthenium) with ((barrier diffusion) with (copper 'cu'))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/20 14:31
S76	47	("re" ruthenium) near5 ((barrier diffusion) with (copper 'cu'))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/20 15:27
S77	4	(("ru" ruthenium) near5 ("'ruo.sub.2'" ruthenium near3 oxide) near5 (barrier diffusion) with (copper 'cu'))	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/20 15:35
S78	8212	(("ru" ruthenium) ("'ruo.sub.2'" ruthenium near3 oxide)) near5 (copper 'cu')	US-PGPUB; USPAT; EPO; JPO	OR	ON	2005/06/20 15:36

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S79	362	(('"ruo.sub.2'" ruthenium near3 oxide)) near5 (copper 'cu')	US-PGPU B; USPAT; EPO; JPO	OR	ON	2005/06/20 15:36
S80	8118	("ru" ruthenium) near5 (copper 'cu')	US-PGPU B; USPAT; EPO; JPO	OR	ON	2005/06/20 15:36
S81	268	S79 and S80	US-PGPU B; USPAT; EPO; JPO	OR	ON	2005/06/20 15:37
S82	1	"5555486".PN.	USPAT; USOCR	OR	ON	2005/06/20 16:44
S83	22	(('"ruo.sub.2'" ruthenium adj oxide) with (barrier diffusion)) with (copper 'cu')	US-PGPU B; USPAT; EPO; JPO	OR	ON	2005/06/29 13:24
S84	1	10/600039	US-PGPU B; USPAT; EPO; JPO	OR	ON	2005/06/29 10:31
S85	20	((('"ruo.sub.2'" ruthenium adj oxide) and ('ru' ruthenium)) with (barrier diffusion adhes$4 glue)) with (copper 'cu')	US-PGPU B; USPAT; EPO; JPO	OR	ON	2005/06/29 15:25
S86	1	"5555486".PN.	USPAT; USOCR	OR	ON	2005/06/29 13:50
S87	1	"5183775".PN.	USPAT; USOCR	OR	ON	2005/06/29 13:50
S88	35	"5618746"	US-PGPU B; USPAT; EPO; JPO	OR	ON	2005/06/29 15:25
S89	5015	(diffusion near3 (layer barrier)) with ('ru' rhthenium copper)	US-PGPU B; USPAT; EPO; JPO	OR	ON	2006/03/16 10:22
S90	311	(diffusion near3 (layer barrier)) with ('ru' rhthenium)	US-PGPU B; USPAT; EPO; JPO	OR	ON	2006/03/16 10:22
S91	32	(diffusion near3 (layer barrier)) with ('ru' rhthenium) with ('cu' copper) with diffus$3	US-PGPU B; USPAT; EPO; JPO	OR	ON	2006/03/16 14:13

S92	0	(diffusion near3 (layer barrier)) with ('ru' rhthenium) with (('cu' copper) with diffus$3) with (ruo2 rhthenium near3 oxide)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 14:14
S93	0	(diffusion near3 (layer barrier)) with ('ru' rhthenium) with (('cu' copper) with diffus$3) same (ruo2 rhthenium near3 oxide)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 14:23
S94	0	(diffusion near3 (layer barrier)) with (ruo2 rhthenium near3 oxide) with (('cu' copper) with diffus$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 14:24
S95	0	(ruo2 rhthenium near3 oxide) with (('cu' copper) with diffus$3)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 14:24
S96	24	(ruo2 rhthenium near3 oxide) with ('cu' copper)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 14:46
S97	2	barrier with (ruo2 rhthenium near3 oxide) with ('cu' copper)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 15:18
S98	1	barrier with ((ruo2 rhthenium near3 oxide) and (ru rhthenium)) with ('cu' copper)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 14:48
S99	38	"5618746"	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 14:48
S100	1	"5536672".PN.	USPAT; USOCR	OR	OFF	2006/03/16 14:57
S101	1	"5386382".PN.	USPAT; USOCR	OR	OFF	2006/03/16 14:57
S102	5	barrier same (ruo2 rhthenium near3 oxide) with ('cu' copper)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 15:36
S103	0	(ruo2 rhthenium near3 oxide) with ('cu' copper) with diffus$3	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 15:39
S104	24	(ruo2 rhthenium near3 oxide) with ('cu' copper)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 15:42

S105	39	(copper with interconnect$3) same barrier with (ru ruthenium)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 15:44
S106	40	(copper with interconnect$3) same (barrier diffus$3) with (ru ruthenium)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 15:44
S107	2	S106 and (copper with interconnect$3) same (barrier diffus$3) with (ruo2 ruthenium near3 oxide)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 15:51
S108	2	S106 and (copper with interconnect$3) same (barrier diffus$3) with (ruo2 ruthenium near3 oxide)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 15:45
S109	318	(barrier diffus$3) with (ruo2 ruthenium near3 oxide)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 15:51
S110	108	(barrier diffus$3) near5 (ruo2 ruthenium near3 oxide)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 15:52
S111	3	(barrier diffus$3) near5 (ruo2 ruthenium near3 oxide) with copper	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 15:59
S112	1	"5555486".PN.	USPAT; USOCR	OR	OFF	2006/03/16 15:56
S113	1	"5183775".PN.	USPAT; USOCR	OR	OFF	2006/03/16 15:58
S114	3	(barrier diffus$3) near5 (ruo2 "'ru.sub.2'" ruthenium near3 oxide) with copper	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 16:00
S115	3	(barrier diffus$3) near5 (ruo2 "ru.sub.2" ruthenium near3 oxide) with copper	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 16:00
S116	3	(barrier diffus$3) near5 (ruo2 "ru.sub.x" ruthenium near3 oxide) with copper	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 16:01
S117	64	(barrier diffus$3) near5 (ruthenium ru) with copper	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/16 17:18
S118	1	10/600039	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/03/17 07:16

S11 9	3	"6624513"	US-PGPU B; USPAT; EPO; JPO	OR	ON	2006/03/17 07:28
S12 0	1	09/255856	US-PGPU B; USPAT; EPO; JPO	OR	ON	2006/03/17 07:54
S12 1	17	"6441492"	US-PGPU B; USPAT; EPO; JPO	OR	ON	2006/03/17 08:03
S12 2	1	"6713373"	US-PGPU B; USPAT; EPO; JPO	OR	ON	2006/03/17 08:12
S12 3	1	"6831003"	US-PGPU B; USPAT; EPO; JPO	OR	ON	2006/03/17 08:12